

CLAIMS

What is claimed is:

1. A computer system comprising:
 - a processor;
 - machine readable storage media for storing programs performable by the processor;
 - input means for receiving input from a user;
 - a display device for providing visual output from the software applications to the user;
 - a system bus connecting the processor to the display device and the input means;
 - an interface adapter for transferring input from the user at the input means to the system bus;
 - a security chip requiring a personal identifier code from the user for performance of at least one of the programs in the storage media; and
 - interposer means for routing the personal identifier code from the input means to the security chip independently of the system bus.
2. The computer system of claim 1, wherein the processor are located on a motherboard in the computer system.
3. The computer system of claim 2, wherein the interposer means and the security chip are located separately from the motherboard in the computer system.
4. The computer system of claim 2, wherein the interposer means and the security chip are located separately on a separate card from the motherboard in the computer system.

1 5. The computer system of claim 2, wherein the interposer means is located
2 separately on a separate board from the motherboard in the computer system.

1 6. The computer system of claim 1, wherein the interposer means comprises:
2 interposer means for routing the personal identifier code directly from the
3 input means to the security chip.

1 7. The computer system of claim 1, wherein:
2 the user interface adapter connects the interposer means to the security chip.

1 8. The computer system of claim 1, wherein the interposer means comprises:
2 interposer means for routing the personal identifier code from the input means
3 to the user interface adapter.

1 9. The computer system of claim 1, wherein data and clock signals are provided
2 between the input means and the user interface adapter and the interposer means
3 further comprises:
4 means for blocking the data and clock signals between the input means and
5 the user interface adapter.

1 10. The computer system of claim 1, wherein the input means comprises a
2 keyboard for entry of the personal identifier code.

1 11. The computer system of claim 1, wherein the input means comprises:
2 a keyboard for entry of data; and
3 a keypad for entry of the personal identifier code.

1 12. The computer system of claim 1, wherein the input means comprises:
2 a keyboard for entry of data; and

3 a fingerprint reader for scanning a user fingerprint to verify an authorized
4 fingerprint as the personal identifier code.

5 13. The computer system of claim 1, wherein the input means comprises:
6 a keyboard for entry of data; and
7 a card reader for scanning a user card to verify an authorized card as the
8 personal identifier code.

1 14. A computer system comprising:
2 a processor;
3 machine readable storage media for storing programs performable by the
4 processor;
5 input means for receiving input from a user;
6 a display device for providing visual output from the software applications to
7 the user;
8 a system bus connecting the processor to the display device and the input
9 means;
10 an interface adapter for transferring input from the user at the input means to
11 the system bus
12 a security chip requiring a personal identifier code from the user for
13 performance of at least one of the programs in the storage media;
14 a direct communication channel for transferring user input from the input
15 means to the security chip; and
16 interposer means for routing the personal identifier code over the direct
17 communication channel to the security chip.

1 15. The computer system of claim 14, wherein the processor are located on a
2 motherboard in the computer system.

1 16. The computer system of claim 15, wherein the interposer means and the
2 security chip are located separately from the motherboard in the computer system.

1 17. The computer system of claim 16, wherein the interposer means and the
2 security chip are located separately on a separate card from the motherboard in the
3 computer system.

1 18. The computer system of claim 16, wherein the interposer means is located
2 separately on a separate board from the motherboard in the computer system.

1 19. The computer system of claim 14, wherein data and clock signals are provided
2 between the input means and the user interface adapter and the interposer means
3 further comprises:

4 means for blocking the data and clock signals between the input means and
5 the user interface adapter.

1 20. The computer system of claim 14, wherein the input means comprises a
2 keyboard for entry of the personal identifier code.

1 21. The computer system of claim 14, wherein the input means comprises:
2 a keyboard for entry of data; and
3 a keypad for entry of the personal identifier code.

1 22. The computer system of claim 14, wherein the input means comprises:
2 a keyboard for entry of data; and
3 a fingerprint reader for scanning a user fingerprint to verify an authorized
4 fingerprint as the personal identifier code.

5 23. The computer system of claim 14, wherein the input means comprises:

6 a keyboard for entry of data; and
7 a card reader for scanning a user card to verify an authorized card as the
8 personal identifier code.

1 24. A method of transferring a personal identifier code to a security chip in a
2 personal computer system comprising the steps of:

3 entering the personal identifier code in a security entry input to the personal
4 computer in response to a request from a processor of the computer over a computer
5 system bus;

6 receiving the personal identifier code in an interposer connected between the
7 security entry input and the security chip; and

8 transferring the personal identifier code from the interposer independently of
9 the computer system bus.

1 25. The method of claim 24, wherein the security entry input comprises a
2 keyboard for entry of the personal identifier code.

3 26. The method of claim 24, wherein the security entry input comprises:
4 a keyboard for entry of data; and
5 a keypad for entry of the personal identifier code.

6 27. The method of claim 24, wherein the security entry input comprises:
7 a keyboard for entry of data; and
8 a fingerprint reader for scanning a user fingerprint to verify an authorized
9 fingerprint as the personal identifier code.

1 28. The method of claim 24, wherein the security entry input comprises:
2 a keyboard for entry of data; and

3 a card reader for scanning a user card to verify an authorized card as the
4 personal identifier code.

1 29. The method of claim 24, wherein:

2 the step of transferring comprises transferring the personal identifier code over
3 a direct communication channel from the security entry input to the security chip.

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